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New England Biolabs Certificate of Analysis

Product Name: T4 PDG (T4 Endonuclease V)

Catalog Number: M0308S
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme that catalyzes the

conversion of 0.5 μ g of UV-irradiated supercoiled pUC19 DNA to >95% nicked plasmid in a total reaction volume of 20 μ l in 30 minutes at 37°C. Nicking is assessed by agarose gel electrophoresis. Irradiated

plasmid contains an average of 3-5 pyrimidine dimers.

Packaging Lot Number: 10070060
Expiration Date: 04/2022
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 250 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol,

0.15 % Triton® X-100, (pH 7.4 @ 25°C)

Specification Version: PS-M0308S/L v1.0

T4 PDG (T4 Endonuclease V) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0308SVIAL	T4 PDG (T4 Endonuclease V)	10070059	Pass	
B9001SVIAL	Purified BSA	10059427	Pass	
B0308SVIAL	T4 PDG Reaction Buffer	10070062	Pass	

Assay Name/Specification	Lot # 10070060
Non-Specific DNase Activity (16 Hour) A 50 ul reaction in NEBuffer 2.1 containing 1 ug of Lambda-HindIII DNA and a minimum of 100 units of T4 PDG (T4 Endonuclease V) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 2.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 30 units of T4 PDG (T4 Endonuclease V) incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Protein Purity Assay (SDS-PAGE) T4 PDG (T4 Endonuclease V) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass



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This product has been tested and shown to be in compliance with all specifications.

Lauren Higgins **Production Scientist**

22 May 2020

Michael Tonello

Packaging Quality Control Inspector

22 May 2020